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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,226	10/29/2001	Harry Vlahos	13497-003001	8380
7:	590 06/08/2004		EXAMI	NER
Dr. Bala S. M	anian		MIZRAHI, 1	DIANE D
Chairman of th Entigen Corpor			ART UNIT	PAPER NUMBER
5150 El Camin	o Real, Suite B23		2175	10
Los Altos, CA 94022			DATE MAILED: 06/08/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

JUN 1 8 2004

Technology Center 2100

	Application No.	Applicant(s)
	10/001,226	VLAHOS ET AL.
Office Action Summary	Examiner	Art Unit
	DIANE D. MIZRAHI	2175
The MAILING DATE of this communication ap		
Period for Reply	•	•
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 19	October 2001.	
, <u> </u>	is action is non-final.	
3) Since this application is in condition for allow	•	secution as to the merits is
closed in accordance with the practice under		
Disposition of Claims	•	
4)⊠ Claim(s) <u>1-47</u> is/are pending in the applicatio	n	
4a) Of the above claim(s) is/are withdra		
5) Claim(s) is/are allowed.	awn nom concideration.	
6) Claim(s) is/are rejected.		DIANE DOMIZRANI
7) Claim(s) is/are objected to.	<	PRIMARY ATENT STAMINER
8) Claim(s) 1-47 are subject to restriction and/or	r election requirement.	TECHNOLOGY SENTEN 2100
Application Papers		
	nor.	•
9) The specification is objected to by the Examir10) The drawing(s) filed on 25 March 2002 is/are:		hy the Evaminer
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the corre		
11) The oath or declaration is objected to by the B		
,		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority 	nts have been received. nts have been received in Applicati	on No
application from the International Bure		a in the National Olage
* See the attached detailed Office action for a lis		ed.
	, , , , , , , , , , , , , , , , , , ,	
Attachment(s)	_	
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 Paper No(s)/Mail Date <u>4 and 6</u>. 	🗖	atent Application (PTO-152)

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III. DETAILED ACTION

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-31, drawn to facilitating access to data which includes providing each of a plurality of heterogeneous data sources with an associated software wrappers, classified in class 707, subclass 102.
- II. Claims 32-41, drawn distributed data processing system configured to receive a data processing request from a requesting entity and processing server configured to provide access to one or more local data processing applications, classified in class 709, subclass 202.
- III. Claim 43-47 drawn to managing heterogeneous data sources including the querying a plurality of heterogeneous data sources classified in class 707, subclass 3.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case,

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invention I has separate utility such as facilitating access to data which includes providing each of a plurality of heterogeneous data sources with an associated software wrapper without requiring the distributed data processing system configured to receive a data processing request from a requesting entity and processing server configured to provide access to one or more local data processing applications of invention II. See MPEP § 806.05(d).

Inventions I and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as managing heterogeneous data sources including the querying a plurality of heterogeneous data sources that is not facilitating access to data for providing each of a plurality of heterogeneous data sources with an associated software wrapper of Invention I. See MPEP § 806.05(d).

Inventions II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as managing heterogeneous data sources including the querying a plurality of heterogeneous data sources

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without distributed data processing system configured to receive a data processing request from a requesting entity and processing server configured to provide access to one or more local data processing applications of Invention II. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Examiner attempted to contact Dr. Bala S. Manian on May 31, 2004 to request an oral election to the above restriction requirements, but did not result in an election being made because Examiner was unable to reach Dr. Manian.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship

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must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane Mizrahi whose telephone number is (703) 305-3806.

Diane Mizrahi Patent Examiner Technology Center 2100

May 31, 2004

Sheet	1	of 1	
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Tradepoark Office	Attorney's Docket No. 13497-003001	Application No. 10/001,226
Information Disc by App	olicant/ ගි\	Applicant Harry Vlahos, et al.	
(Use several she (37 CFR §1.98(b))	ets if necessary B 1 1 20072	Filing Date October 29, 2001	Group Art Unit

4.8. Patent Documents							
Examiner	Desig.	Patent					Filing Date
Initial	ID_	Number	Issue Date	Patentee	Class	Subclass	If Appropriate
PIH	AA	5,970,490	10/19/1999	Morgenstern	707	10 ·	
	AB	6,064,971	5/16/2000	Hartnett	706	46	
	AC	6,102,969	8/15/2000	Christianson et al.	717	146	
	AD	6,125,383	9/26/2000	Glynias et al.	704	202	
	AE	6,134,559	10/17/2000	Brumme et al.	701	105/2	
	AF						
	AG						
	AH						
	AI						

	Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Trans Yes	lation No
Dr	AJ	EP1170674A2	1/9/2002	ЕРО	-			
DV	AK	WO00/41094	7/12/2000	PCT				
0	AL	WO01/54045	7/26/2001	PCT				
	AM							
	AN							

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document			
Dr	AO	Arens et al., "Retrieving and Integrating Data from Multiple Information Sources," International Journal of Intelligent and Cooperative Information Systems, Vol. 2, No. 2 (1993) pp. 127-158			
pr	AP	Haas et al., "Transforming Heterogeneous Data with Database Middleware: Beyond Integration", Bulletin of the IEEE Computer Society Technical Committee on Data Engineering, 1997, pp. 1-6			
Pr	AQ	Miller et al., "Schema Mapping as Query Discovery", Proceedings of the 26 th VLDB Conference, Cairo, Egypt, 2000			
or	AR	Miller et al., "The Clio Project: Managing Heterogeneity", ACM SIGMOD Record 30, 1 (March 2001), pp. 78-83			
0	AS	Roth et al., "A Wrapper Architecture for Legacy Data Sources", IBM Almaden Research Center, 1997, pp. 1-21			

Examiner Signature DIANE D MIZRAGI CONTROL OF THE PROPERTY O	Date Considered
EXAMINER: Initials citator project and providing through citation if no next communication to about an	t in conformance and not considered. Include copy of this form with

Sheet	1	of	1

(Use several sheets if necessary)

Attorney's Docket No. 13497-003001

Application No. 10/001,226

Information Disclosure Statement by Applicant

Applicant

Harry Vlahos, et al.

Filing Date

Group Art Unit

(37 CFR §1.98(b))

October 29, 2001

U.S. Patent Documents Filing Date Patent Examiner Desig. If Appropriate Patentee Issue Date Number Initial ID AASEP 0 4 2002 AB ACTechnology Center 2100

	Foreig	n Patent Doo	uments or Pu	blished Foreign	Patent A	Application	าร	
Examiner Initial	Desig.	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Trans Yes	lation No
	AD							
	AE							
	AF							

	Other D	ocuments (include Author, Title, Date, and Place of Publication)
Examiner	Desig.	
Initial	l ID	Document
DM	AG	Liu, et al., "An Adaptive Approach to Query Mediation across Heterogeneous Information Sources", Cooperative Information Systems Proceedings, First IFCIS International Conference on Brussels, Belgium, June 19-21, 1996, IEEE Computer Society, pp. 144-156
DM	AH	Adah, et al., "Query Caching and Optimization in Distributed Mediator Systems", 1996 ACM Sigmod International Conference on Management of Data, Montreal, Quebec, Canada, June 4-6, 1996, pp. 137-140
D	AI	Nodine, et al., "Semantic Brokering over Dynamic Hetcrogeneous Data Sources in InfoSleutin", Data Engineering Proceedings, 15 th International Conference on Sydney, NSW, Australia, March 23-26, 1999, IEEE Computer Society, pp. 358-365
D-	AJ	Bayardo, et al., "Infosleuth: Agent-Based Semantic Integration of Information in Open and Dynamic Environments", Sigmod Record, Association for Computing Machinery, New York, Vol. 26, no. 2, June 1, 1997, pp. 195-206
D -	AK	Roth et al., "Don't Scrap it, Wrap It! A Wrapper Architecture for Legacy Data Sources", Proceedings of the International Conference on Very Large Data Bases, August 26, 1997, pp. 266-275
D	AL	Carey et al., "Towards Heterogeneous Multimedia Information Systems: The Garlic Approach", Research Issues in Data Engineering, Fifth International Workshop on Taipei, Taiwan, March 6-7, 1995, IEEE Computer Society, pp. 124-131
n	AM	Reinwald, et al., "Heterogeneous Query Processing through SQL Table Functions", Data Engineering Proceedings, 15th International Conference on Sydney, NSW, Australia, March 23-26, 1999, IEEE Computer Society, pp. 366-373
N	AN	Rosenthal, et al., "XML, Databases, and Interoperability", AFCEA Annual Federal Database Colloquium, San Diego, CA, 1999, pp. 1-18

	- AAAM AMATAAUI		
Examiner Signature		Date Considered / 1	
	PRIMARY FOR EXAMINER	6/1/04	
	SECHNOLOGY CENTER 2100		
EXAMINER: Initials cita	ation considered. Draw line through citation if no	t in conformance and not consider	ed. Include copy of this form with
next communication to			
1,000 00		Su	bstitute Disclosure Form (PTO-1449)